

WHAT IS CLAIMED IS:

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1. A color display device in which display pixels for
indicating different colors are provided in plural numbers for each
5 color and arranged in a matrix, said color display device comprising,
corresponding to each display pixel:

a self-emissive element for emitting light of a predetermined
color; and

10 a driving thin film transistor (TFT) connected to said
self-emissive element for supplying a drive current to said
self-emissive element; wherein

size of said driving TFT in a display pixel for one color is
altered from that in a display pixel for another color.

15 2. The color display device as claimed in claim 1, comprising,
corresponding to each display pixel:

a switching TFT for controlling turning on and off of said
driving TFT and a current therethrough.

20 3. The color display device as claimed in claim 1, wherein
said size of said driving TFT is determined according to an
emissive efficiency of a self-emissive element connected to the
driving TFT.

25 4. The color display device as claimed in claim 3, wherein
said size of a driving TFT connected to a self-emissive element
having a high emissive efficiency is set smaller compared to said

size of a driving TFT connected to a self-emissive element having a low emissive efficiency.

5 5. The color display device as claimed in claim 3, wherein said size of a driving TFT connected to a self-emissive element having a highest emissive efficiency is set smaller compared to said size of a driving TFT connected to a self-emissive element having any other level of emissive efficiency.

10 6. The color display device as claimed in claim 5, wherein color of the self-emissive element having the highest emissive efficiency is green.

15 7. The color display device as claimed in claim 3, wherein said size of a driving TFT connected to a self-emissive element having a lowest emissive efficiency is set larger compared to said size of a driving TFT connected to a self-emissive element having any other level of emissive efficiency.

20 8. The color display device as claimed in claim 7, wherein color of the self-emissive element having the lowest emissive efficiency is either red or blue.

25 9. The color display device as claimed in claim 3, wherein said size of said driving TFT is made successively larger as the emissive efficiency decreases.

10. The color display device as claimed in claim 1, wherein said self-emissive element is an electroluminescence element.

5 11. The color display device as claimed in claim 1, wherein said size of said driving TFT is altered by changing a gate width according to emitting color while a gate length is fixed.

10 12. The color display device as claimed in claim 1, wherein said size of said driving TFT is altered by changing a gate length according to emitting color while a gate width is fixed.

15 13. A color display device in which a display pixels for indicating different colors are provided in plural numbers for each color and arranged in a matrix, said color display device comprising, corresponding to each display pixel:

a self-emissive element for emitting light of a predetermined color; and

20 a driving thin film transistor (TFT) connected to said self-emissive element for supplying a drive current to said self-emissive element; wherein

size of said driving TFT in a display pixel for one color is set for every color in accordance with:

25 the emission efficiency of said emissive element disposed at said display pixel;

the chromaticity of each color emitted by respective emissive element; and

the chromaticity of target display white of the display device.

14. A color display device according to claim 13 wherein the size of said driving TFT of the display pixel of any one color, among the display pixel of various colors, is different from the size of said driving TFT of the display pixel of another color.

15. A color display device according to claim 13 wherein said emissive element is an organic electroluminescence element comprising the emissive layer using an organic compound between first electrode and second electrode.

16. A color display device in which display pixels for red, for green, and for blue, are provided in plural numbers for each color and arranged in a matrix, said color display device comprising, corresponding to each display pixel:

a self-emissive element for emitting light of a predetermined color; and

a driving thin film transistor (TFT) connected to said self-emissive element for supplying a drive current to said self-emissive element; wherein

size of said driving TFT in a display pixel for red, for green, and for blue is set on the basis of:

the emission efficiency of the emissive element of each display pixel; and

a luminance ratio of red to green to blue in accordance with

each chromaticity of red, green, and blue emitted by respective emissive element of the display pixel, and with the chromaticity of target display white of the display device.

5 17. A color display device according to claim 16 wherein the emissive area of the display pixel of any one color among said display pixel for red, for green, and for blue is different in size from the emissive area of the display pixel of another color.

10 18. A color display device according to claim 16 wherein said emissive element is an organic electroluminescence element comprising the emissive layer using an organic compound between first electrode and second electrode.